

What is claimed is:

1. A sorting conveyor comprises a plurality of transporting units connected to travel on a transporting route shaped in a loop so as to drive a conveyor for cross sorting provided on each transporting unit at a sorting position, characterized in that:

said transporting units consist of a chassis formed with a beam shaped link and a base fixed to the center of the upper part of the link in the perpendicular direction, wherein the transporting unit is connected at the front end and the rear end of the beam shaped link, respectively, and wherein the conveyor for cross sorting is supported at the upper part of the base in such a manner that the cross sorting conveyor can be driven reversely in the direction perpendicular to the traveling direction of the transporting unit, and a pair of traveling wheels which are mounted on both ends of the base come into contact with guide rails arranged on both sides of the transporting route, so that while traveling on the curved part of the transporting route, said traveling wheels travel along a circular locus whose center is a focus point of the curved transporting route.

2. The sorting conveyor according to claim 1, wherein said conveyor for cross sorting is an endless belt conveyor.

3. The sorting conveyor according to claim 1, wherein said conveyor for cross sorting is a drive roller conveyor.

4. The sorting conveyor according to any one of claims 1 to 3, wherein a connecting unit for linking the transporting unit is

attached to the front end and rear end of said beam shaped link, and a guide wheel is suspended from respective connecting units of said link end so as to travel while coming into contact with a center rail of the center of the transporting route.

5 5. The sorting conveyor according to any one of claims 1 to 4, wherein there are provided level guide rails and oblique side rails at both sides of said transporting route, wherein the traveling wheels provided adjacent to both sides of the base so as to come into contact with the level guide rails, and the
10 coaster shaped guide wheels so as to come into contact with the oblique side rails in which the guide wheel and the traveling wheel put the rail of a guide member there between so as to associate with one another.

6. The sorting conveyor according to any one of claims 1 to 5,
15 wherein a connecting unit having the same width as said link is assembled so as to insert a spacer at an end part of said link detachably, said connecting unit supports a shaft part of the guide wheel guided by said center rail with a spherical sliding bearing.

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